

AMENDMENTS TO THE CLAIMS

1 1. (Previously Presented) A method of providing information about an object
2 through a graphical interface, the method comprising:
3 creating and storing scalable vector graphics (SVG) statements in a SVG document
4 that references a SVG document type definition file, the SVG statements
5 associated with a graphical representation of the object;
6 inserting into the SVG document a reference to a second document type definition
7 file, said second document type definition file defining a binding element with
8 an attribute for referencing a resource through a pointer, wherein the resource
9 includes information pertaining to the object;
10 wherein the resource is a database and the pointer includes a query for a data item in
11 the database; and
12 binding to the SVG statements the pointer to the resource from an instance of the
13 binding element.

1 2-4. (Canceled)

1 5. (Original) The method of Claim 1, wherein:
2 the object is one of a network device and a link between network devices;
3 the resource is a database of at least one of network devices and network connections
4 associated with a managed network; and
5 the pointer indicates a database element associated with the object.

1 6. (Previously Presented) The method of Claim 1, further comprising:
2 creating and storing additional SVG statements in the SVG document, the additional
3 statements associated with an other graphical representation of an other
4 object; and
5 binding the additional SVG statements to an other pointer to the resource, wherein the
6 resource includes additional information pertaining to the other object.

1 7. (Previously Presented) A method as recited in Claim 1, further comprising the
2 steps of:
3 presenting a graphical representation of the object based on the SVG statements in the
4 SVG document;
5 extracting the pointer to the resource from the instance of the binding element in the
6 SVG document;
7 determining whether a user has selected the graphical representation of the object;
8 and
9 if the user has selected the graphical representation, then using information in the
10 resource based on the pointer.

1 8. (Canceled)

1 9. (Original) The method of Claim 7, wherein:
2 the method further comprises defining a style sheet which maps an area on a display
3 associated with the graphical representation to a link including the pointer to
4 the resource; and
5 said determining whether a user has selected the graphical representation comprises
6 determining whether a pointing device has placed a cursor over the area.

1 10. (Original) The method of Claim 7, wherein:
2 the method further comprises providing statements in at least one of a scripting
3 language and a programming language, the statements mapping an area on a
4 display associated with the graphical representation to a link including the
5 pointer to the resource; and
6 said determining whether a user has selected the graphical representation comprises
7 determining whether a pointing device has placed a cursor over the area.

1 11. (Original) The method of Claim 7, said using the information in the resource
2 comprising displaying the information to the user.

- 1 12. (Original) The method of Claim 7, said using the information in the resource
2 comprising launching a separate application to operate on the resource based on the
3 pointer.
- 1 13. (Original) The method of Claim 7, wherein:
2 the object is one of a network device and a link between network devices;
3 the resource is a database of at least one of network devices and network connections
4 associated with a managed network; and
5 the pointer indicates a database element associated with the object.
- 1 14. (Previously Presented) A method as recited in Claim 1, the method comprising:
2 retrieving the SVG document wherein the SVG statements are associated with a first
3 graphical representation of the object;
4 extracting the pointer to the resource from the instance of the binding element in the
5 SVG document;
6 retrieving information from the resource based on the pointer;
7 modifying the SVG statements based on the information; and
8 presenting a second graphical representation of the object based on the SVG
9 statements after said modifying.
- 1 15. (Original) The method of Claim 14, wherein:
2 the information retrieved from the resource includes current status of the object; and
3 the second graphical representation indicates the current status of the object.
- 1 16. (Original) The method of Claim 15, wherein:
2 the object is one of a network device and a link between network devices;
3 the resource is a database of at least one of network devices and network connections
4 associated with a managed network; and
5 the pointer indicates a database element associated with the object.

1 17. (Canceled)

1 18. (Original) The method of Claim 14, said modifying the SVG statements
2 comprising:
3 inserting an anchor for a hyperlink to another resource; and
4 inserting the second graphical representation of the object into the anchor.

1 19. (Original) The method of Claim 18, said modifying the SVG statements further
2 comprising including in the hyperlink at least a portion of the information retrieved
3 from the resource based on the pointer.

1 20. (Original) The method of Claim 18, wherein the second graphical representation
2 is the same as the first graphical representation.

1 21. (Previously Presented) The method of Claim 18, said modifying the SVG
2 statements further comprising removing the instance of the binding element from the
3 SVG statements.

1 22. (Original) The method of Claim 18, said modifying the SVG statements further
2 comprising removing the SVG statements that form the first graphical representation
3 of the object.

1 23-31. (Canceled)

1 32. (Previously Presented) The method of claim 7, wherein the step of extracting the
2 pointer comprises extracting a value from the attribute of the instance of the binding
3 element for referencing a resource through a pointer.

1 33. (Previously Presented) The method of claim 14, wherein the step of extracting the
2 pointer comprises extracting a value from the attribute of the instance of the binding
3 element for referencing a resource through a pointer.

1 34. (New) A computer-readable medium carrying one or more sequences of instructions for
2 providing information about an object through a graphical interface, which sequences of
3 instructions, when executed by one or more processors, cause the one or more processors
4 to perform:
5 creating and storing scalable vector graphics (SVG) statements in a SVG document that
6 references a SVG document type definition file, the SVG statements associated
7 with a graphical representation of the object;
8 inserting into the SVG document a reference to a second document type definition file,
9 said second document type definition file defining a binding element with an
10 attribute for referencing a resource through a pointer, wherein the resource
11 includes information pertaining to the object;
12 wherein the resource is a database and the pointer includes a query for a data item in the
13 database; and
14 binding to the SVG statements the pointer to the resource from an instance of the binding
15 element.

1 35. (New) The computer-readable medium of Claim 34, wherein:
2 the object is one of a network device and a link between network devices;
3 the resource is a database of at least one of network devices and network connections
4 associated with a managed network; and
5 the pointer indicates a database element associated with the object.

1 36. (New) The computer-readable medium of Claim 34, wherein the one or more
2 sequences of instructions further comprise instructions which, when executed by the
3 one or more processors, cause the one or more processors to perform:

4 creating and storing additional SVG statements in the SVG document, the additional
5 statements associated with an other graphical representation of an other
6 object; and
7 binding the additional SVG statements to an other pointer to the resource, wherein the
8 resource includes additional information pertaining to the other object.

1 37. (New) The computer-readable medium of Claim 34, wherein the one or more
2 sequences of instructions further comprise instructions which, when executed by the
3 one or more processors, cause the one or more processors to perform:
4 presenting the graphical representation of the object based on the SVG statements in
5 the SVG document;
6 extracting the pointer to the resource from the instance of the binding element in the
7 SVG document;
8 determining whether a user has selected the graphical representation of the object;
9 and
10 if the user has selected the graphical representation, then using information in the
11 resource based on the pointer.

1 38. (New) The computer-readable medium of Claim 37, wherein:
2 the one or more sequences of instructions further comprise instructions which, when
3 executed by the one or more processors, cause the one or more processors to
4 perform defining a style sheet which maps an area on a display associated
5 with the graphical representation to a link including the pointer to the
6 resource; and
7 the instructions causing the one or more processors to perform determining whether
8 the user has selected the graphical representation comprise instructions which,
9 when executed by the one or more processors, cause the one or more
10 processors to perform determining whether a pointing device has placed a
11 cursor over the area.

1 39. (New) The computer-readable medium of Claim 37, wherein:

2 the one or more sequences of instructions further comprise instructions which, when
3 executed by the one or more processors, cause the one or more processors to
4 perform providing statements in at least one of a scripting language and a
5 programming language, the statements mapping an area on a display
6 associated with the graphical representation to a link including the pointer to
7 the resource; and

8 the instructions causing the one or more processors to perform determining whether
9 the user has selected the graphical representation comprise instructions which,
10 when executed by the one or more processors, cause the one or more
11 processors to perform determining whether a pointing device has placed a
12 cursor over the area.

1 40. (New) The computer-readable medium of Claim 37, wherein the instructions causing
2 the one or more processors to perform using the information in the resource comprise
3 instructions which, when executed by the one or more processors, cause the one or
4 more processors to perform displaying the information to the user.

1 41. (New) The computer-readable medium of Claim 37, wherein the instructions causing
2 the one or more processors to perform using the information in the resource comprise
3 instructions which, when executed by the one or more processors, cause the one or
4 more processors to perform launching a separate application to operate on the
5 resource based on the pointer.

1 42. (New) The computer-readable medium of Claim 37, wherein:
2 the object is one of a network device and a link between network devices;
3 the resource is a database of at least one of network devices and network connections
4 associated with a managed network; and
5 the pointer indicates a database element associated with the object.

1 43. (New) The computer-readable medium of Claim 34, wherein the one or more
2 sequences of instructions further comprise instructions which, when executed by the
3 one or more processors, cause the one or more processors to perform:
4 retrieving the SVG document wherein the SVG statements are associated with a first
5 graphical representation of the object;
6 extracting the pointer to the resource from the instance of the binding element in the
7 SVG document;
8 retrieving information from the resource based on the pointer;
9 modifying the SVG statements based on the information; and
10 presenting a second graphical representation of the object based on the SVG
11 statements after said modifying.

1 44. (New) The computer-readable medium of Claim 43, wherein:
2 the information retrieved from the resource includes current status of the object; and
3 the second graphical representation indicates the current status of the object.

1 45. (New) The computer-readable medium of Claim 44, wherein:
2 the object is one of a network device and a link between network devices;
3 the resource is a database of at least one of network devices and network connections
4 associated with a managed network; and
5 the pointer indicates a database element associated with the object.

1 46. (New) The computer-readable medium of Claim 43, wherein the instructions causing
2 the one or more processors to perform modifying the SVG statements further
3 comprise instructions which, when executed by the one or more processors, cause the
4 one or more processors to perform:
5 inserting an anchor for a hyperlink to another resource; and
6 inserting the second graphical representation of the object into the anchor.

- 1 47. (New) The computer-readable medium of Claim 46, wherein the instructions causing
2 the one or more processors to perform modifying the SVG statements further
3 comprise instructions which, when executed by the one or more processors, cause the
4 one or more processors to perform including in the hyperlink at least a portion of the
5 information retrieved from the resource based on the pointer.
- 1 48. (New) The computer-readable medium of Claim 46, wherein the second graphical
2 representation is the same as the first graphical representation.
- 1 49. (New) The computer-readable medium of Claim 46, wherein the instructions causing
2 the one or more processors to perform modifying the SVG statements further
3 comprise instructions which, when executed by the one or more processors, cause the
4 one or more processors to perform removing the instance of the binding element from
5 the SVG statements.
- 1 50. (New) The computer-readable medium of Claim 46, wherein the instructions causing
2 the one or more processors to perform modifying the SVG statements further
3 comprise instructions which, when executed by the one or more processors, cause the
4 one or more processors to perform removing the SVG statements that form the first
5 graphical representation of the object.
- 1 51. (New) An apparatus for providing information about an object through a graphical
2 interface, the apparatus comprising:
3 one or more processors; and
4 one or more stored sequences of instructions which, when executed by the one or more
5 processors, cause the one or more processors to perform:
6 creating and storing scalable vector graphics (SVG) statements in a SVG
7 document that references a SVG document type definition file, the SVG
8 statements associated with a graphical representation of the object;

9 inserting into the SVG document a reference to a second document type definition
10 file, said second document type definition file defining a binding element
11 with an attribute for referencing a resource through a pointer, wherein the
12 resource includes information pertaining to the object;
13 wherein the resource is a database and the pointer includes a query for a data item
14 in the database; and
15 binding to the SVG statements the pointer to the resource from an instance of the
16 binding element.

1 52. (New) The apparatus of Claim 51, wherein:
2 the object is one of a network device and a link between network devices;
3 the resource is a database of at least one of network devices and network connections
4 associated with a managed network; and
5 the pointer indicates a database element associated with the object.

1 53. (New) The apparatus of Claim 51, wherein the one or more sequences of instructions
2 further comprise instructions which, when executed by the one or more processors,
3 cause the one or more processors to perform:
4 creating and storing additional SVG statements in the SVG document, the additional
5 statements associated with an other graphical representation of an other
6 object; and
7 binding the additional SVG statements to an other pointer to the resource, wherein the
8 resource includes additional information pertaining to the other object.

1 54. (New) The apparatus of Claim 51, wherein the one or more sequences of instructions
2 further comprise instructions which, when executed by the one or more processors,
3 cause the one or more processors to perform:
4 presenting the graphical representation of the object based on the SVG statements in
5 the SVG document;
6 extracting the pointer to the resource from the instance of the binding element in the
7 SVG document;

8 determining whether a user has selected the graphical representation of the object;
9 and
10 if the user has selected the graphical representation, then using information in the
11 resource based on the pointer.

1 55. (New) The apparatus of Claim 54, wherein:
2 the one or more sequences of instructions further comprise instructions which, when
3 executed by the one or more processors, cause the one or more processors to
4 perform defining a style sheet which maps an area on a display associated
5 with the graphical representation to a link including the pointer to the
6 resource; and
7 the instructions causing the one or more processors to perform determining whether
8 the user has selected the graphical representation comprise instructions which,
9 when executed by the one or more processors, cause the one or more
10 processors to perform determining whether a pointing device has placed a
11 cursor over the area.

1 56. (New) The apparatus of Claim 54, wherein:
2 the one or more sequences of instructions further comprise instructions which, when
3 executed by the one or more processors, cause the one or more processors to
4 perform providing statements in at least one of a scripting language and a
5 programming language, the statements mapping an area on a display
6 associated with the graphical representation to a link including the pointer to
7 the resource; and
8 the instructions causing the one or more processors to perform determining whether
9 the user has selected the graphical representation comprise instructions which,
10 when executed by the one or more processors, cause the one or more
11 processors to perform determining whether a pointing device has placed a
12 cursor over the area.

1 57. (New) The apparatus of Claim 54, wherein the instructions causing the one or more
2 processors to perform using the information in the resource comprise instructions
3 which, when executed by the one or more processors, cause the one or more
4 processors to perform displaying the information to the user.

1 58. (New) The apparatus of Claim 54, wherein the instructions causing the one or more
2 processors to perform using the information in the resource comprise instructions
3 which, when executed by the one or more processors, cause the one or more
4 processors to perform launching a separate application to operate on the resource
5 based on the pointer.

1 59. (New) The apparatus of Claim 54, wherein:
2 the object is one of a network device and a link between network devices;
3 the resource is a database of at least one of network devices and network connections
4 associated with a managed network; and
5 the pointer indicates a database element associated with the object.

1 60. (New) The apparatus of Claim 51, wherein the one or more sequences of instructions
2 further comprise instructions which, when executed by the one or more processors,
3 cause the one or more processors to perform:
4 retrieving the SVG document wherein the SVG statements are associated with a first
5 graphical representation of the object;
6 extracting the pointer to the resource from the instance of the binding element in the
7 SVG document;
8 retrieving information from the resource based on the pointer;
9 modifying the SVG statements based on the information; and
10 presenting a second graphical representation of the object based on the SVG
11 statements after said modifying.

- 1 61. (New) The apparatus of Claim 60, wherein:
2 the information retrieved from the resource includes current status of the object; and
3 the second graphical representation indicates the current status of the object.
- 1 62. (New) The apparatus of Claim 61, wherein:
2 the object is one of a network device and a link between network devices;
3 the resource is a database of at least one of network devices and network connections
4 associated with a managed network; and
5 the pointer indicates a database element associated with the object.
- 1 63. (New) The apparatus of Claim 60, wherein the instructions causing the one or more
2 processors to perform modifying the SVG statements further comprise instructions
3 which, when executed by the one or more processors, cause the one or more
4 processors to perform:
5 inserting an anchor for a hyperlink to another resource; and
6 inserting the second graphical representation of the object into the anchor.
- 1 64. (New) The apparatus of Claim 63, wherein the instructions causing the one or more
2 processors to perform modifying the SVG statements further comprise instructions
3 which, when executed by the one or more processors, cause the one or more
4 processors to perform including in the hyperlink at least a portion of the information
5 retrieved from the resource based on the pointer.
- 1 65. (New) The apparatus of Claim 63, wherein the second graphical representation is the
2 same as the first graphical representation.
- 1 66. (New) The apparatus of Claim 63, wherein the instructions causing the one or more
2 processors to perform modifying the SVG statements further comprise instructions
3 which, when executed by the one or more processors, cause the one or more

4 processors to perform removing the instance of the binding element from the SVG
5 statements.

1 67. (New) The apparatus of Claim 63, wherein the instructions causing the one or more
2 processors to perform modifying the SVG statements further comprise instructions
3 which, when executed by the one or more processors, cause the one or more
4 processors to perform removing the SVG statements that form the first graphical
5 representation of the object.

1 68. (New) An apparatus for providing information about an object through a graphical
2 interface, the apparatus comprising:
3 means for creating and storing scalable vector graphics (SVG) statements in a SVG
4 document that references a SVG document type definition file, the SVG
5 statements associated with a graphical representation of the object;
6 means for inserting into the SVG document a reference to a second document type
7 definition file, said second document type definition file defining a binding
8 element with an attribute for referencing a resource through a pointer, wherein the
9 resource includes information pertaining to the object;
10 wherein the resource is a database and the pointer includes a query for a data item in the
11 database; and
12 means for binding to the SVG statements the pointer to the resource from an instance of
13 the binding element.

1 69. (New) The apparatus of Claim 68, wherein:
2 the object is one of a network device and a link between network devices;
3 the resource is a database of at least one of network devices and network connections
4 associated with a managed network; and
5 the pointer indicates a database element associated with the object.

1 70. (New) The apparatus of Claim 68, further comprising:

2 means for creating and storing additional SVG statements in the SVG document, the
3 additional statements associated with an other graphical representation of an
4 other object; and
5 means for binding the additional SVG statements to an other pointer to the resource,
6 wherein the resource includes additional information pertaining to the other
7 object.

1 71. (New) The apparatus of Claim 68, further comprising:
2 means for presenting the graphical representation of the object based on the SVG
3 statements in the SVG document;
4 means for extracting the pointer to the resource from the instance of the binding
5 element in the SVG document;
6 means for determining whether a user has selected the graphical representation of the
7 object; and
8 means for using information in the resource based on the pointer when the user has
9 selected the graphical representation.

1 72. (New) The apparatus of Claim 71, wherein:
2 the apparatus further comprises means for defining a style sheet which maps an area
3 on a display associated with the graphical representation to a link including
4 the pointer to the resource; and
5 the means for determining whether the user has selected the graphical representation
6 comprise means for determining whether a pointing device has placed a cursor
7 over the area.

1 73. (New) The apparatus of Claim 71, wherein:
2 the apparatus further comprises means for providing statements in at least one of a
3 scripting language and a programming language, the statements mapping an
4 area on a display associated with the graphical representation to a link
5 including the pointer to the resource; and

6 the means for determining whether the user has selected the graphical representation
7 comprise means for determining whether a pointing device has placed a cursor
8 over the area.

1 74. (New) The apparatus of Claim 71, wherein the means for using the information in the
2 resource comprise means for displaying the information to the user.

1 75. (New) The apparatus of Claim 71, wherein means for using the information in the
2 resource comprise means for launching a separate application to operate on the
3 resource based on the pointer.

1 76. (New) The apparatus of Claim 71, wherein:
2 the object is one of a network device and a link between network devices;
3 the resource is a database of at least one of network devices and network connections
4 associated with a managed network; and
5 the pointer indicates a database element associated with the object.

1 77. (New) The apparatus of Claim 68, further comprising:
2 means for retrieving the SVG document wherein the SVG statements are associated
3 with a first graphical representation of the object;
4 means for extracting the pointer to the resource from the instance of the binding
5 element in the SVG document;
6 means for retrieving information from the resource based on the pointer;
7 means for modifying the SVG statements based on the information; and
8 means for presenting a second graphical representation of the object based on the
9 SVG statements after the SVG statements are modified based on the
10 information.

1 78. (New) The apparatus of Claim 77, wherein:
2 the information retrieved from the resource includes current status of the object; and

3 the second graphical representation indicates the current status of the object.

1 79. (New) The apparatus of Claim 78, wherein:
2 the object is one of a network device and a link between network devices;
3 the resource is a database of at least one of network devices and network connections
4 associated with a managed network; and
5 the pointer indicates a database element associated with the object.

1 80. (New) The apparatus of Claim 77, wherein the means for modifying the SVG
2 statements further comprise:
3 means for inserting an anchor for a hyperlink to another resource; and
4 means for inserting the second graphical representation of the object into the anchor.

1 81. (New) The apparatus of Claim 80, wherein the means for modifying the SVG
2 statements further comprise means for including in the hyperlink at least a portion of
3 the information retrieved from the resource based on the pointer.

1 82. (New) The apparatus of Claim 80, wherein the second graphical representation is the
2 same as the first graphical representation.

1 83. (New) The apparatus of Claim 80, wherein the means for modifying the SVG
2 statements further comprise means for removing the instance of the binding element
3 from the SVG statements.

1 84. (New) The apparatus of Claim 80, wherein the means for modifying the SVG
2 statements further comprise means for removing the SVG statements that form the
3 first graphical representation of the object.